GANTOM DMX USER GUIDE

The Gantom DMX is a 4W controllable LED light for professional applications. Featuring a non-linear dimming curve, the Gantom DMX can be dimmed with high precision even at the lowest intensity levels. Homogeneous optics smoothly blend the colors of the internal quad chip LED producing a clean projected field without the "halos" seen in many other color mixing fixtures. High frequency hybrid modulation allows the Gantom DMX to be used in video applications with minimal on-camera flickering. The Gantom DMX can even be battery powered for portable applications, perfect for event lighting where access to power and signal is inconvenient. The Gantom DMX is configured using our DMX Programmer app, available free for Apple and Android devices.

Features

o   Homogeneous wide beam angles
o   Non-linear dimming curve for smooth fading without visible "steps" in output intensity
o   14 bit dimming compressed into single 8 bit channel gives precision control without using extra channels
o   DMX address and colors configured via DMX Programmer app
o   Less than 5W at full output
o   Minimized on-camera flicker
o   Integrated DMX receiver
o   Integrated quad channel constant current driver for consistent output
o   IP65 rated for indoor and outdoor use with occasional liquid exposure

Available Models

The Gantom DMX is available in full color RGBW or Dynamic White. It is also available as either a Spot or Flood light.

Product Name	Gantom DMX Spot – DW	Gantom DMX Spot – RGBW	Gantom DMX Flood – DW	Gantom DMX Flood – RGBW
SKU	GT11	GT12	GT21	GT22
Color Temperature	3000K-6500K	6500K	3000K-6500K	6500K
DMX Channels	2	4	2	4

DMX CHANNEL MAPPING

RGBW DMX Channel Descriptions

Channel	Name	Description
Ch 1	Red	Controls red channel
Ch 2	Green	Controls green channel
Ch 3	Blue	Controls blue channel
Ch 4	White	Controls white channel

DW DMX Channel Descriptions

Channel	Name	Description
Ch 1	CW	Controls cool white channel
Ch 2	WW	Controls warm white channel

POWER AND WIRING REQUIREMENTS

The Gantom DMX has a maximum fixture wattage of 4.8W and an operating voltage of 12V DC. For recommended power supplies check http://www.gantom.com/power-supplies/

Rather than using a typical XLR cable for carrying the DMX signal, Gantom DMX fixtures use 3.5mm TRS cables. Gantom makes the an XLR 5 Pin to 3.5mm TRS adapter (product number CB51) that is perfect for connecting into an XLR based DMX environment.

Additionally, screw terminal adapters are included with every fixture to simplify custom wiring. You can screw bare wires directly into these adapters.

| BARE WIRE PINOUT		
Power	+	RED
	-	BLUE
DMX signal	D+	GREEN
	D-	YELLOW
	COM	BLACK

Tip
Ring
Sleeve

COM   D-   D+
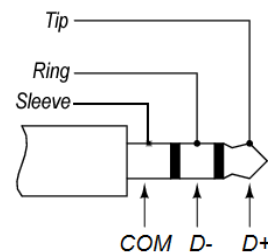
3.5mm TRS Plug

ADDRESSING YOUR GANTOM DMX

Due to its compact size, the Gantom DMX cannot use a physical DIP switch for addressing. Instead, the Gantom DMX is programmed using the DMX Programmer App by Gantom. In addition to setting the DMX starting address for the fixture, the app allows you to save a default color and brightness for the fixture if the application does not require any DMX control.

By default, the DMX starting address will be 1. The Gantom DMX will flash several times when it is powered on to indicate its starting address. If the Gantom DMX RGBW is assigned to address 245 it will report its address by flashing red 2 times, then flashing green 4 times, then flashing blue 5 times. If it is assigned to DMX address 038, it will flash red 0 times, then flash green 3 times, then flash blue 8 times. For a Gantom DMX DW fixture, the fixture will flash the cool white LEDs for the first digit, the warm white LEDs for the second digit, and then the cool white LEDs again for the third digit. If the starting address is 358, the fixture will flash the cool white LEDs 3 times, then flash the warm white LEDs 5 times, then flash the cool white LEDs 8 times. Address reporting at startup can be toggled off in the settings menu covered later in this document.
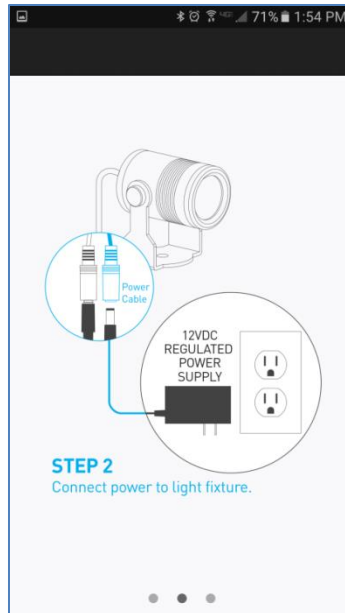
What you need:

- o   An Android or iOS device for running the Gantom Programmer app. Please note that a headphone port is required to connect to the device to the fixture. The iPhone7 does work with, but you will need to use the headphone port adapter that is included with the phone.
- o   A male-to-male 3.5mm audio 3.5mm cable. This is the same type of cable that you would use to connect your Android or iOS device to headphones or to an AUX port.
- o   Power supply for the fixture. All Gantom fixtures accept 12v DC power. We recommend using one of our PowerPak Mini units if you are just going to power a single fixture.
- o   The free **DMX Programmer** app by Gantom. This can be found by searching "Gantom" in iTunes for an Apple device or Google Play for an Android device
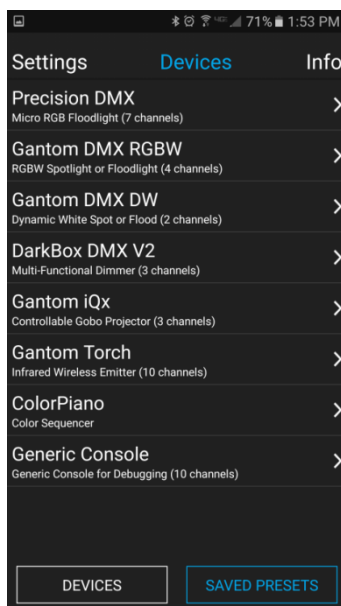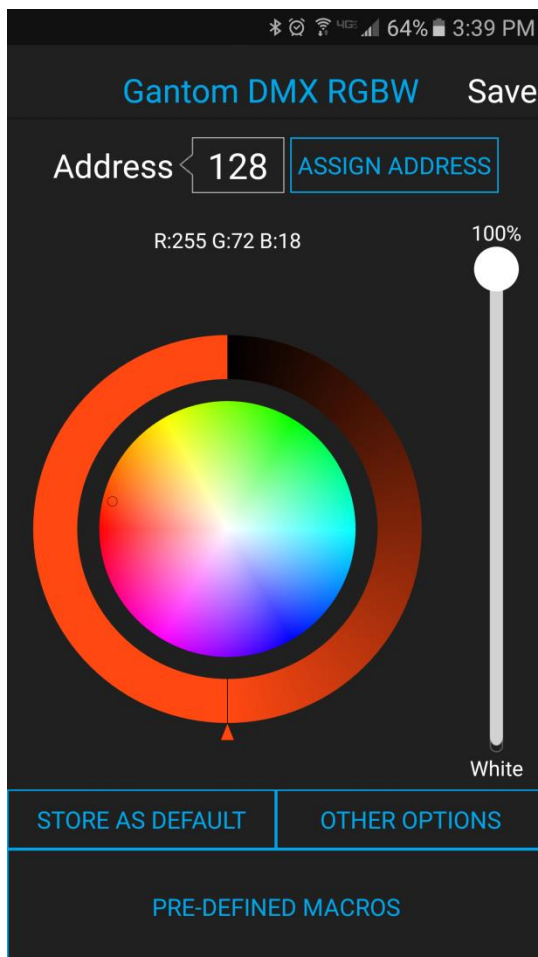
First, open the **DMX Programmer** app by Gantom. The app will open to the screen you see here. From this screen, select either the Gantom DMX RGBW or the Gantom DMX DW.

The app will then provide you instructions on how to connect the light fixture to the tablet or smartphone. Please note the order in which the cables should be connected. First connect the headphone cable to the light fixture and to the tablet/smartphone. Next, connect the power to the fixture. When prompted by the app, tap the "Next" button and you will be taken to the control screen.

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STEP 1
Connect male to male audio cable between light fixture and phone.

STEP 2
Connect power to light fixture.

STEP 3
Once signal and power cables are connected, tap "Next" to control device.

STEP 2
Connect power to light fixture.

CONTROL SCREEN

Gantom DMX RGBW   Save

Address ‹ 128 │ ASSIGN ADDRESS

R:255 G:72 B:18   100%

White

STORE AS DEFAULT │ OTHER OPTIONS

PRE-DEFINED MACROS

o **Address** – This box shows the address that will be assigned to the fixture if you hit the "Assign Address" button

o **Assign Address** – Hitting this button will assign the selected address to the fixture. The light fixture should blink in response to having a new address assigned.

o **Save button** – this will allow you to save a settings profile into the app. Use this if you need to configure many fixtures to have the exact same settings. Please note that this button DOES NOT save the current profile or address to the fixture.

o **Color Palette** – the color palette will allow you to set the light to any RGB color. This is useful if you do not need live DMX control and would like to set the fixture to a default color at startup. Please note that for the Gantom DMX DW the color palette is replaced with a color temperature slider.

o **Store as Default** – hitting this will save the current color and brightness to be the default state for the light when it turns on. If the light does not see DMX signal when it is powered on, it will go to this state.

o **Pre-Defined Macros** – Selecting this button will bring up a set of basic colors that can be selected without using the color palette.

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OTHER OPTIONS SCREEN

If you hit the "Other Options" button on the control screen, the following menu appears:
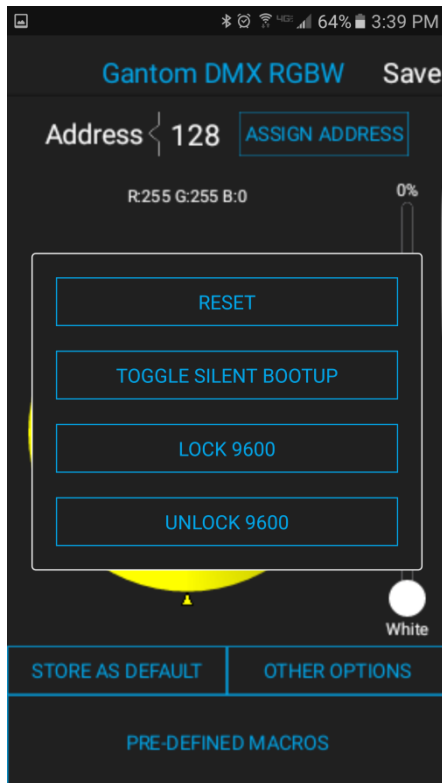
o   **Reset** - selecting this will reset the fixture to its default factory settings. Do this if you are running into programming issues.

o   **Toggle Silent Bootup** – By default, the fixture will flash to report its DMX address when it is powered on. Hitting the "Toggle Silent Bootup" setting will turn address reporting at startup on or off.

o   **Lock/Unlock 9600** – The Gantom DMX fixture can listen to either a standard DMX signal OR to the special control signal that comes from the app. Lock 9600 will turn OFF the fixture's ability to listen to DMX and ONLY allow it to be controlled through the app interface. For most applications it is recommended that you keep "UNLOCK 9600" selected.

Product Support:

We hope that this guide has been effective for learning how to use your Gantom DMX light fixture. However, if you run into a wiring issue, a bug in the software, or just a light that doesn't seem to want to cooperate, we at Gantom are ready to help you out! Just send an email to Support@GANTOM.com and we will get back to you as soon as possible.